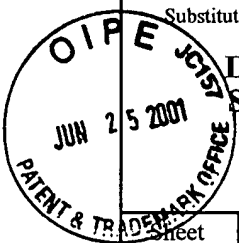


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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	08/873,978
Filing Date	June 12, 1997
First Named Inventor	KAYYEM et al.
Group Art Unit	1631
Examiner Name	Marschel, A.
Attorney Docket Number	A-63761-1/RFT/RMS/RMK

Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AM ✓	1	4,704,193		Bowers et al.	11/1987	
✓	2	4,945,045		Forrest et al.	07/1990	
✓	3	5,089,112		Skotheim et al.	02/1992	
✓	4	5,180,968		Bruckenstein et al.	01/1993	
✓	5	5,356,786		Heller et al.	10/1994	
✓	6	5,391,272		O'Daly et al.	02/1995	
✓	7	5,436,161		Bergstrom et al.	07/1995	
✓	8	5,443,701		Willner et al.	08/1995	
✓	9	5,242,828		Bergstrom et al.	9/1993	
✓	10	5,552,270		Khrapko et al.	9/1996	
✓	11	5,705,348		Meade et al.	01/1998	
✓	12	5,741,700		Ershov et al.	4/1998	
✓	13	5,756,050		Ershov et al.	5/1998	
✓	14	5,770,369		Meade et al.	06/1998	
✓	15	5,770,721		Ershov et al.	6/1998	

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
AM ✓	16	WO	86/05815	A1	Genetics International Inc.	3/1985		
✓	17	WO	90/05303	A1	Pharmacia AB	05/1990		
✓	18	WO	95/34816	A1	Pharmacia Biosensor AB	12/1995		
✓	19	WO	96/10178	A1	Pharmacia Biosensor AB	04/1996		
✓	20	WO	97/27329	A1	Univ. of Chicago	7/1997		
✓	21	WO	97/41425	A1	Pence Inc.	11/1997		
✓	22	WO	98/20162			05/1998		
✓	23	WO	98/27229	A1	Univ. of Chicago	6/1998		
✓	24	WO	98/28444	A2	Univ. of Chicago	7/1998		
✓	25	WO	98/57159	A1	Clinical Micro Systems	6/1997		

Examiner Signature	<i>Arin Marschel</i>	Date Considered	2-22-02
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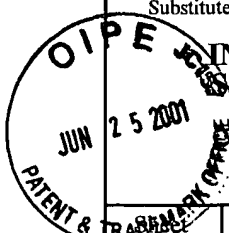
¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	08/873,978
				Filing Date	June 12, 1997
				First Named Inventor	KAYYEM et al.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
2	of	4	Attorney Docket Number	A-63761-1/RFT/RMS/RMK	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AM ✓	26	5,795,453		Gilmartin	08/1998	
✓	27	5,780,234		Meade et al.	07/1998	
✓	28	5,824,473		Meade et al.	10/1998	
✓	29	5,851,772		Mirzabekov et al.	12/1998	
✓	30	5,952,172		Meade et al.	09/1999	
✓	31	6,060,023		Maracas	05/2000	
✓	32	6,060,327		Keen	05/2000	
✓	33	6,096,273		Kayyem et al.	08/2000	
✓	34	6,107,080		Lennox	08/2000	
✓	35	6,071,699		Meade et al.	06/2000	
✓	36	6,087,100		Meade et al.	07/2000	
✓	37	6,177,250		Meade et al.	01/2001	
✓	38	6,180,352		Meade et al.	01/2001	
✓	39	6,238,870		Meade et al.	05/2001	
✓	40	6,200,761		Meade et al.	03/2001	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
AM ✓	41	WO	99/67425	A2	Clinical Micro Sensors, Inc.	12/1999		
AM ✓	42	WO	99/14596	A1	AB Sangtec Medical	03/1999		

Examiner Signature	<i>Andi Marschel</i>	Date Considered	2-22-02
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	08/873,978
		Filing Date	June 12, 1997
		First Named Inventor	KAYYEM et al.
		Group Art Unit	1631
		Examiner Name	Marschel, A.
Sheet 3 of 4	Attorney Docket Number	A-63761-1/RFT/RMS/RMK	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AM	43	Blonder et al., "Three-dimensional Redox-Active layered Composites of Au-Au, Ag-Ag and Au-Ag Colloids," Chem. Commun. 1393-1394 (1998).	
✓	44	Boon et al., "Mutation Detection by Electrocatalysis at DNA- Modified Electrodes," Nature Biotechnology, 18: 1096-1100 (October 2000).	
✓	45	Chee et al., "Voltammetry of defect sites at a self-assembled monolayer on a gold surface," J. of Electroanalytical Chemistry, 453: 9-17 (1998).	
✓	46	Drobyshev, A. et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β -thalassemia Mutations," Gene, 188:45-52 (1997).	
✓	47	Dubiley, S. et al., "Fractionation, phosphorylation and Ligation on Oligonucleotide Microchips to Enhance Sequencing by Hybridization," Nucleic Acids Research, 25(12):2259-2265 (1997).	
✓	48	Elghanian et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles," Science, 277:1078-1081 (1997).	
✓	49	Fotin, A. et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, 26(6):1515-1521 (1998).	
✓	50	Guschin, D. et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," Analytical Biochemistry, 250:203-211 (1997).	
✓	51	Guschin, D. et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology," 63(6):2397-2402 (1997).	
✓	52	Hess et al., "Base Pairing Properties of Novel Transition Metal PNA Conjugates," Journal of Inorganic Biochemistry, 74:161 (1999).	
✓	53	Hsueh et al., "Electrochemically Directed Self-Assembly on Gold," Angew. Chem. Int. Ed. 39(7): 1228-1230 (2000).	
✓	54	Kamat et al., J. Phys. chem., 93(4):1405-1409 (1989).	
✓	55	Korri-Youssoufi et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," J. Am. Chem. Soc., 119(31):7388-7389 (1997).	
✓	56	Livshits, M. et al., "Theoretical Analysis of the Kinetics of DNA Hybridization with Gel-Immobilized Oligonucleotides," Biophysical Journal, 71:2795-2801 (1996).	
✓	57	Mirkin et al., "A DNA-based Method for Rationally Assembling Nonoparticles into Macroscopic Materials," Nature, 382:607-609 (1996).	

Examiner Signature	<i>A. Marschel</i>	Date Considered	2-22-02
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Sheet 4

of	4
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Application Number

08/873.978

Filing Date

June 12, 1997

First Named Inventor

KAYYEM et al.

Group Art Unit

1631

Examiner Name

Marschel, A.

Attorney Docket Number

A-63761-1/RFT/RMS/RMK

[illegible]

Examiner
Signature

Adin Marshes

Date
Considered

2-22-02

¹ Unique citation designation number. ² Applicant is to place a check mark here if English Language Translation is attached.

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